

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/540,438-Conf. #1664
		Filing Date	June 6, 2006
		First Named Inventor	Jochen Freytag
		Art Unit	3749
		Examiner Name	G. A. Wilson
Sheet	1	of	10
		Attorney Docket Number	20941/0211436-USO

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-2,582,710	01-15-1952		
	AB*	US-2,607,666	08-19-1952		
	AC*	US-2,714,126	07-26-1955		
	AD*	US-2,864,674	12-16-1958		
	AE*	US-2,874,095	02-17-1959		
	AF*	US-3,528,179	09-15-1970		
	AG*	US-3,578,798	05-18-1971	Lapple et al.	
	AH*	US-3,671,424	06-20-1972	Saxton	
	AI*	US-3,876,392	04-08-1975	Kalina et al.	
	AJ*	US-4,044,094	08-23-1977	Barner et al.	
	AK*	US-4,073,642	02-14-1978	Collin et al.	
	AL*	US-4,191,544	03-04-1980	Boll et al.	
	AM*	US-4,338,283	07-06-1982	Sakamoto et al.	
	AN*	US-4,377,466	03-22-1983	Wallman	
	AO*	US-4,404,755	09-20-1983	Stewart et al.	
	AP*	US-4,490,287	12-25-1984	Hardwick et al.	
	AQ*	US-4,676,824	06-30-1987	Daradimos et al.	
	AR*	US-4,786,477	11-22-1988	Yoon et al.	
	AS*	US-4,806,158	02-21-1989	Hirsch et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	AU-9894057	05-25-2000			
	BB	CN-1732276	02-08-2006		Equivalent to US2006230879	X
	BC	CN-1738918	02-22-2006		Equivalent to US2006230880	X
	BD	DD-248109	07-29-1987		Abstract included	X
	BE	DD-278348	05-02-1990		Abstract included	X
	BF	DE-575245	04-26-1933		Abstract included	X

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with a single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iv)) because that application was filed after June 30, 2003 or is available in the IPW. * Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Emitter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/540,438-Conf. #1664	
			Filing Date	June 6, 2006	
			First Named Inventor	Jochen Freytag	
			Art Unit	3749	
			Examiner Name	G. A. Wilson	
Sheet	2	of	10	Attorney Docket Number	20941/0211436-USO

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number/Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AT*	US-4,822,592	04-18-1989	Misra	
	AU*	US-4,919,715	04-24-1990	Smith et al.	
	AV*	US-4,992,245	02-12-1991	Van Slooten et al.	
	AW*	US-5,269,236	12-14-1993	Okuno et al.	
	AX*	US-5,349,154	09-20-1994	Harker et al.	
	AY*	US-5,374,413	12-20-1994	Kim et al.	
	AZ*	US-5,382,412	01-17-1995	Kim et al.	
	AA1*	US-5,382,418	01-17-1995	Thone et al.	
	AB1*	US-5,527,379	06-18-1996	Hirsch et al.	
	AC1*	US-5,573,689	12-28-1999	Schreieder et al.	
	AD1*	US-5,603,748	02-18-1997	Hirsch et al.	
	AE1*	US-5,783,158	07-21-1998	Tacke et al.	
	AF1*	US-5,942,110	08-24-1999	Norris	
	AG1*	US-6,007,869	12-28-1999	Schreieder et al.	
	AH1*	US-6,022,513	02-08-2000	Pecoraro et al.	
	AI1*	US-6,074,533	06-13-2000	Tranquilla et al.	
	AJ1*	US-6,110,413	08-29-2000	Jung et al.	
	AK1*	US-6,197,234	03-06-2001	Goudmand et al.	
	AL1*	US-6,368,389	04-09-2002	Birke et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T*
		Country Code*-Number*-Kind Code* (if known)	MM-DD-YYYY			
	BG	DE-1016938	10-03-1957		Abstract included	X
	BH	DE-2524541	12-23-1976		Equivalent to US4111158	X
	BI	DE-2805906	08-23-1979		Abstract included	x
	BJ	DE-3235559	05-24-1984		Abstract included	x
	BK	DE-3822999	01-04-1990		Abstract included	x
	BL	DE-4015031	11-14-1991		Abstract included	x

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with a single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(ii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/540,438-Conf. #1664
		Filing Date	June 6, 2006
		First Named Inventor	Jochen Freytag
		Art Unit	3749
		Examiner Name	G. A. Wilson
Sheet	3	of	10
		Attorney Docket Number	20941/0211436-USO

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AM1*	US-6,395,248	05-28-2002	Kim et al.	
	AN1*	US-6,413,477	07-02-2002	Govoni et al.	
	AO1*	US-6,416,721	07-09-2002	Sanjurjo et al.	
	AP1*	US-6,827,786	12-07-2004	Lord	
	AQ1*	US-6,830,597	12-14-2004	Green	
	AR1*	US-20060162500	07-27-2006	Nuber et al.	
	AS1*	US-20060230879	10-19-2006	Stroder et al.	
	AT1*	US-20060230880	10-19-2006	Hirsch et al.	
	AU1*	US-20060231433	10-19-2006	Rufo et al.	
	AV1*	US-20060231466	10-19-2006	Nuber	
	AW1*	US-20060249100	11-09-2006	Freytag et al.	
	AX1*	US-20060263292	11-23-2006	Hirsch et al.	
	AY1*	US-20060278566	12-14-2006	Orth et al.	
	AZ1*	US-20070137435	06-21-2007	Orth et al.	
	AA2*	US-20080124253	05-29-2008	Schmidt et al.	
	AB2*	US-4,147,911	04-03-1979	Nishitani et al.	
	AC2*	US-5,084,140	01-28-1992	Holland et al.	
	AD2*	US-20040042952	03-04-2004	Bergeron et al.	
	AE2*	US-4,307,277	12-22-1981	Maeda et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ² -Number ³ -Kind Code ³ (if known)	MM-DD-YYYY				
	BM	DE-4206602	06-24-1993		Equivalent to US5382418		X
	BN	DE-4410093	03-09-1995		Abstract included		x
	BO	DE-10061386	09-05-2002		Equivalent to US2002113024		x
	BP	DE-10101157	07-18-2002		Abstract included		x
	BQ	DE-10164086	08-14-2003		Abstract included		x
	BR	DE-19609284	09-11-1997		Abstract included		x

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(ii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at <http://uspto.gov> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin-top: 10px;"><i>(Use as many sheets as necessary)</i></p>		Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Application Number</td> <td>10/540,438-Conf. #1664</td> </tr> <tr> <td>Filing Date</td> <td>June 6, 2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Jochen Freytag</td> </tr> <tr> <td>Art Unit</td> <td>3749</td> </tr> <tr> <td>Examiner Name</td> <td>G. A. Wilson</td> </tr> <tr> <td>Attorney Docket Number</td> <td>20941/0211436-US0</td> </tr> </table>		Application Number	10/540,438-Conf. #1664	Filing Date	June 6, 2006	First Named Inventor	Jochen Freytag	Art Unit	3749	Examiner Name	G. A. Wilson	Attorney Docket Number	20941/0211436-US0
Application Number	10/540,438-Conf. #1664														
Filing Date	June 6, 2006														
First Named Inventor	Jochen Freytag														
Art Unit	3749														
Examiner Name	G. A. Wilson														
Attorney Docket Number	20941/0211436-US0														
Sheet	8	of	10												

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	"Ullmann's Encyclopedia of Industrial Chemistry" 5th edition, 1994, Vol. A25, pages 574-575	
	CB	SANDER U H F et al. "Production from elemental sulphur" Sulphur, Sulphur Dioxide and Sulphuric Acid. Introduction to their Industrial Chemistry and Technology, London, British Sulphur Corporation, GB, 1984, pages 168-176, XP0006085	
	CC	Barbara ELVERS et al. "Ullmann's Encyclopedia of Industrial Chemistry", Fifth, Completely Revised Edition, Vol. A25, VCH, pages 567-577	
	CD	Notice of Allowance dated 02/06/2009 for USSN:10/540,355 filed 02/02/2006	
	CE	Vijay, "Preoxidation and Hydrogen Reduction of Ilmenite in a Fluidized Bed Reactor" XP 000632260, Metallurgical and Material Transactions B, Vol 27B, October 1996, 9. 731-738.	
	CF	Kim, Y.T. et al, "Entrainment of solids in an internally circulating fluidized bed with draft tube". Chemical Engineering Journal, Vol. 66, (1997), p. 105-110.	
	CG	Notice of Allowance dated 07/20/2009 for USSN: 10/540,435 filed 03/27/2006.	
	CH	Office Action dated 09/19/2008 for USSN: 10/540,435 filed 03/27/2006.	
	CI	Office Action dated 02/11/2009 for USSN: 10/540,497 filed 05/31/2006.	
	CJ	Notice of Allowance dated 02/06/2009 for USSN: 10/540,355 filed 02/02/2006.	

Examiner Signature	Date Considered
--------------------	-----------------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ³Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO <div style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</div> <div style="text-align: center;"><i>(Use as many sheets as necessary)</i></div>		<div style="text-align: center;">Complete if Known</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Application Number</td> <td>10/540,438-Conf. #1664</td> </tr> <tr> <td>Filing Date</td> <td>June 6, 2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Jochen Freytag</td> </tr> <tr> <td>Art Unit</td> <td>3749</td> </tr> <tr> <td>Examiner Name</td> <td>G. A. Wilson</td> </tr> <tr> <td>Attorney Docket Number</td> <td>20941/0211436-US0</td> </tr> </table>		Application Number	10/540,438-Conf. #1664	Filing Date	June 6, 2006	First Named Inventor	Jochen Freytag	Art Unit	3749	Examiner Name	G. A. Wilson	Attorney Docket Number	20941/0211436-US0
Application Number	10/540,438-Conf. #1664														
Filing Date	June 6, 2006														
First Named Inventor	Jochen Freytag														
Art Unit	3749														
Examiner Name	G. A. Wilson														
Attorney Docket Number	20941/0211436-US0														
Sheet	9	of	10												

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CK	Office Action dated 08/12/2008 for USSN: 10/540,355 filed 02/02/2006.	
	CL	Office Action dated 03/27/2008 for USSN: 10/540,355 filed 02/02/2006.	
	CM	Office Action dated 07/08/2009 for USSN: 10/540,073 filed 07/19/2006.	
	CN	Office Action dated 01/26/2009 for USSN: 10/540,073 filed 07/19/2006.	
	CO	Office Action dated 08/21/2008 for USSN: 10/540,073 filed 07/19/2006.	
	CP	Office Action dated 05/13/2009 for USSN: 10/540,376 filed 01/17/2006.	
	CQ	Office Action dated 10/09/2008 for USSN: 10/540,376 filed 01/17/2006.	
	CR	Office Action dated 06/02/2008 for USSN: 10/540,376 filed 01/17/2006.	
	CS	Office Action dated 09/17/2008 for USSN: 10/540,434 filed 05/16/2006.	
	CT	Notice of Allowance dated 12/03/2008 for USSN: 10/540,437 filed 05/10/2006.	

Examiner Signature	Date Considered
--------------------	-----------------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ³Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Complete if Known	
			Application Number	10/540,438-Conf. #1664
			Filing Date	June 6, 2006
			First Named Inventor	Jochen Freytag
			Art Unit	3749
			Examiner Name	G. A. Wilson
			Attorney Docket Number	20941/0211436-USO
Sheet	10	of	10	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CU	Office Action dated 06/16/2008 for USSN: 10/540,437 filed 05/10/2006.	
	CV	Office Action dated 12/29/2008 for USSN: 10/540,071 filed 05/11/2006.	
	CW	Office Action dated 07/23/2008 for USSN: 10/540,071 filed 05/11/2006.	
	CX	Notice of Allowance dated 04/13/2009 for USSN: 10/540,071 filed 05/11/2006.	
	CY	Office Action dated 07/14/2008 for USSN: 10/540,436 filed 11/10/2005.	
	CZ	Office Action dated 10/30/2008 for USSN: 10/540,436 filed 11/10/2005.	
	CA1	Office Action dated 04/17/2009 for USSN: 10/540,436 filed 11/10/2005.	
	CB1	Office Action dated 12/27/2007 for USSN: 10/540,436 filed 11/10/2005.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ³Applicant is to place a check mark here if English language Translation is attached.